



## Industrial Energy Limited

NIT No.: IEL/KPO/CC25AKTKPO-03/24-25

(Contracts Department)

Industrial Energy Limited, Kalinganagar, Duburi, Odisha-755019

### Procedure for Participating in Tender

Tender Enquiry No.	Work Description	Estimated cost/ EMD	Tender Participation Fee	Last date and time for Payment of Tender Participation Fee
CC25AKTKPO-03	IEL-KPO TOWNSHIP “B”BLOCK BALANCE WORK.	Rs.2,00,000/-	Rs. 2000.00	20.07.2024

**Please note that corresponding details mentioned in this document will supersede any other details mentioned anywhere else in the Tender Document.**

**Procedure for Participating in Tender. Following steps to be done before “Last date and time for Payment of Tender Participation Fee” as mentioned above.**

1. **Tender Fees-** Non-Refundable Tender Participation Fee, as indicated in table above, to be submitted in the form of

Direct deposit in the following bank account and submit the receipt along with a covering letter clearly indicating the Tender Reference number – Beneficiary Name – Industrial Energy Limited.

**Beneficiary Name - Industrial Energy Limited**

**Bank Name - HDFC Bank Ltd**

**Branch code - 000706**

**IFSC code - HDFC0000706**

**A/c No - 07060310000021**

**Branch - Jajpur Road Branch**

**MICR code - 755240102**



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- 2. Authorization letter-** Eligible and Interested Bidders to submit duly signed and stamped letter on Bidder's letterhead indicating the following:

Tender Enquiry Number	Name of authorized person	Contact Number	Email id	Fee Amount

**E-mail with necessary attachments as per step 1 and 2, as indicated above to be sent to [alok.tripathy@tatapower.com](mailto:alok.tripathy@tatapower.com) with copy to [sat.singh@tatapower.com](mailto:sat.singh@tatapower.com) before “Last date and time for Payment of Tender Participation Fee”, after which link from Tata Power E-Tender system (Ariba) will be shared for further communication and bid submission.**

Please note all future correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc. will be only through Tata Power E-Tender system (Ariba). User manual to guide the bidders to submit the bid through e-Tender system (Ariba) will be share with ARIBA tender.

No e-mail or verbal correspondence will be responded. All communication will be done strictly with the bidder who have complied with above steps to participate in the Tender.

Also, it may be strictly noted that once date of “Last date and time for Payment of Tender Participation Fee” is lapsed no Bidder will be sent link from Tata Power E-Tender System (Ariba). Without this link vendor will not be able to participate in the tender. Any last moment request to participate in tender will not be entertained.

Any payment of Tender Participation Fee / EMD by Bidder who have not done the prerequisite within stipulated timeline will not be refunded.



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### INTRODUCTION

Industrial Energy Limited (IEL) is the JV (Joint Venture) of TATA POWER & TATA STEEL, it was formed for Generation and supply of power and process steam by utilization of waste gases from Blast furnace and coke oven of TSL plant at Kalinganagar.

<b>Site Name</b>	67.5 MW X 3 units - IEL, Kalinganagar
<b>Owner</b>	Industrial Energy Limited
<b>Project Manager</b>	Industrial Energy Limited
<b>Site Location</b>	Industrial Energy Ltd. C/O - The Tata Power Co. Ltd., Inside of Tata Steel Ltd., Kalinganagar, Jajpur , Jajpur Road , Duburi-755026, Odisha, India
<b>Nearest Railway Station</b>	Jajpur Keonjhar Road, Odisha. Appx. 21 kilometres from TSL Kalinganagar plant.
<b>Transport Mode</b>	Rail/Road. Nearest Airport at Bhubaneswar. Appx.120 km away from plant location and guest house.



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#### 1.0 Event Information

##### 1.1 Scope of work

Open Tenders are invited in through e-tender bidding process from interested and eligible Bidders for KPO TOWNSHIP “B” BLOCK BALANCE WORK COMPLETION.

Line item	Description	EMD Amount	Tender Fees
1	KPO TOWNSHIP “B” BLOCK BALANCE WORK	Rs. 2,00,000/-	Rs. 2,000

##### 1.2 Availability of Tender Documents

Refer “Procedure for participating in tender”.

##### 1.3 Calendar of Events:

(a)	Date of availability of Tender Document on TPC Website.	From 29-JUNE-2024 onwards
(b)	Date by which interested and eligible vendors to pay tender fee and confirm participation in accordance with ‘Procedure for participating in tender’.	20-JULY-2024



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(c)	Date of pre-bid meeting (if any)	25-JULY-2024
(d)	Last date of submission of pre-bid queries (if any).	30-JULY-2024
(e)	Last Date of Posting Consolidated replies to all the pre-bid queries as received	07-AUG-2024
(f)	Last Date and time for receipt of bids	10-AUG-2024

Note: - In the event of extension of last date of submission of bids, same shall be intimated to the participating bidders through e-tender system.

### 1.4 Mandatory documents required along with the Bid

1.4.1 EMD of requisite value and validity

1.4.2 Tender Fee in case the tender is downloaded from website

1.4.3 Requisite Documents for compliance to Qualification Criteria mentioned in Clause 1.7.

1.4.4 Duly signed and stamped 'Schedule of Deviations' as per Annexure III on bidder's letter head.

1.4.5 Duly signed and stamped 'Schedule of Commercial Specifications' as per Annexure IV on bidder's letter head.

1.4.6 Proper authorization letter/ Power of Attorney to sign the tender on the behalf of bidder.

1.4.7 Copy of PAN, GST, PF and ESI Registration (In case any of these documents is not available with the bidder, same to be explicitly mentioned in the 'Schedule of Deviations').

Please note that in absence of any of the above documents, the bid submitted by a bidder shall be liable for rejection.

### 1.5 Deviation from Tender

Normally, the deviations to tender terms are not admissible and the bids with deviation are liable for rejection. Hence, the bidders are advised to refrain from taking any deviations on this Tender. Still in case of any deviations, all such deviations shall be set out by the Bidders, clause by clause in the 'Annexure III - Schedule of Deviations' and same shall be submitted as a part of the Technical Bid.

### 1.6 Right of Acceptance/Rejection

Bids are liable for rejection in absence of following documents: -

1.6.1 EMD of requisite value and validity

1.6.2 Tender fee of requisite value

1.6.3 Price Bid as per the Price Schedule mentioned in Annexure-I

1.6.4 Necessary documents against compliance to Qualification Requirements mentioned at Clause 1.7 of this Tender Document.

1.6.5 Filled in Schedule of Deviations as per Annexure III

1.6.6 Filled in Schedule of Commercial Specifications as per Annexure IV

1.6.7 Receipt of Bid within the due date and time

IEL reserves the right to accept/reject any or all the bids without assigning any reason thereof.



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### 1.7 Qualification Criteria:

To be filled by IEL				To be filled up be Vendor	
Sr No	Parameter	IEL Requirement	Documents to be submitted by vendor to ascertain meeting of Pre-Qualification Requirement	Vendor Submission against IEL PQR Requirement	Documents submitted by Vendor to ascertain meeting of Pre-Qualification Requirement
1	2	3	4	5	6
1	Technical Experience	The Tenderer should have proven experience of required service not less than 5 years.	Documentary evidence (i.e.) Experience certificate/performance certificate. Performance Certificates for the same from reputed company where service is rendered need to be produced.		
2	Resources management	The Tenderer should have enough capability to manage skilled human resources as well as material resources (tools, all necessary consumables, all required PPEs)	Documentary evidence to establish the fact that the bidder has adequate capability to manage human & material resources (viz. Performance		



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			certificate, Rewards & Recognitions on subject matter)		
3	Deployment & mobilization of resources	The Tenderer must be capable enough to deploy skilled human resources as per mentioned job scope. If any inconvenience happens with deployment, same to be sorted out within 24 hours and same to be applied for other resources also.	Documentary evidence to establish the fact that the bidder has adequate capability to manage human & material resources (viz. Performance certificate, Rewards & Recognitions on subject matter)		
4	Employee welfare	The Tenderer must pay ESI, PF contributions to applicable government authority for & on behalf of employee as well as Employer's contribution without defaulting for a single time.	Employee Master Roll, ESI,PF statement for last 5 years to be submitted. BOCW registration is desired.		
5	Statutory & other requirement	The Tenderer must fulfil all Statutory Requirements (labour license etc) and must possess all required Statutory Clearances from appropriate authority. BOCW registration is desired.	All original documents to be submitted along with bid.		
6	Support	The bidder should have well established, prompt service-support facility required during any unforeseen events/emergency/exigency/total power failure/grid	Documentary evidence for well established, prompt service-support facility.		



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		failure/local black-out/pandemic etc.			
7	Vendor Registration Requirement	In case bidder's factory/office from which the Purchase Order/ Outline Agreement will be executed is registered then Vendor Code to be mentioned. In case not then duly filled Vendor Registration Form along with Backup Documents to be submitted as part of Commercial Bid	Vendor Code if Vendor is registered with Tata Power. Duly filled Vendor Registration Form along with Backup Documents for Vendor not registered with Tata Power. (Please note that for bidder not registered with Tata Power, registration will be taken up in Tata Power ERP system only if the bidder is successful)		
8	Capability to Handle Job financially if awarded	Average Annual turnover of the bidder for last three years shall not be less than Rs 500/- Lakhs	Profit and Loss Statements, Balance Sheet, Cash Flow Statements for the Three (3) preceding financial years (FY 2021-22, FY 2022-23, FY 2023-24) duly audited and approved by Authorized Audit Firm / CA Order copy with details of Customer for whom work is done		



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9	Vendor to not have commercial liability including litigation liability and litigation history	Bidder to confirm that they (bidding company, their parent company or subsidiary company) were not involved in any litigation in last three years or more and there are no pending or open litigations. In case there were litigations in last 3 years or any present litigation is going on than details of the same must be submitted.	Affidavit indicating no litigation / blacklisting etc. In case of litigation / blacklisting the same to be annexed		
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### 1.8 Marketing Integrity

We have a fair and competitive marketplace. The rules for bidders are outlined in the General Condition of Contracts. Bidders must agree to these rules prior to participating. In addition to other remedies available, IEL reserves the right to exclude a bidder from participating in future markets due to the bidder's violation of any of the rules or obligations contained in the General Condition of Contracts. A bidder who violates the marketplace rules or engages in behaviour that disrupts the fair execution of the marketplace, may result in restriction of a bidder from further participation in the marketplace for a length of time, depending upon the seriousness of the violation. Examples of violations include, but are not limited to:

- Failure to honour prices submitted to the marketplace.
- Breach of terms as published in TENDER/NIT

### 1.9 Supplier Confidentiality

All information contained in this tender is confidential and shall not be disclosed, published, or advertised in any manner without written authorization from IEL. This includes all bidding information submitted to IEL. All tender documents remain the property of IEL, and all suppliers are required to return these documents to IEL upon request. Suppliers who do not honour these confidentiality provisions will be excluded from participating in future bidding events.



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### 2.0 Evaluation Criteria

- The bids will be evaluated technically on the compliance to tender terms and conditions.
- The bids will be evaluated commercially on overall all-inclusive lowest cost for overall BOQ as calculated in Schedule of Items [Annexure I]. IEL reserves the right to split the order quantity wise among more than one Bidder. Hence all bidders are advised to quote their most competitive rates against each line item.
- Bidder must mandatorily quote as per schedule of item [Annexure-I]. Failing to do so IEL may reject the bid.
- Safety bid shall evaluate in terms of certificates of ISO 9001, ISO 14001 and ISO 45001, Man-Power details (with safety officer & Supervisor, site-in charge etc..), Relevant Tools and tackles, HIRA / JSA related to the job, Last 3 Years safety records. Failing to qualify the safety bid evaluation, IEL will reject the bid.

NOTE: In case of a bidder new to Tata Power, site inspection and evaluation shall be carried out to ascertain bidder's manufacturing capability and quality procedures. However, IEL reserves the right to carry out site inspection and evaluation for any bidder prior to technical qualification. In case a bidder is found as Disqualified in the factory evaluation, their bid shall not be evaluated any further and shall be summarily rejected. The decision of IEL shall be final and binding on the bidder in this regard.

### Submission of Bid Documents

**3.0 Bid Submission** Bidders are requested to submit their offer in line with this Tender document.

All correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc. will happen only through Tata Power E-Tender system (Ariba).

No e-mail or verbal correspondence will be responded. All communication will be done strictly with the bidders who have participated in the Tender as elaborated in procedure for participating in tender.

Bids shall be submitted in 3 (Three) parts:

FIRST PART: "EMD" of Rs. 2,00,000/- (Rupees Fifty Thousand only) shall be submitted. The EMD shall be valid for 180 days from the due date of bid submission in the form of Bank Guarantee (BG) favouring 'Industrial Energy Limited'. The EMD BG must be strictly in the format as mentioned in General Condition of Contract, failing which it shall not be accepted, and the bid as submitted shall be liable for rejection.



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EMD shall be strictly in the format of Bank Guarantee and Original Hard Copy shall be delivered at the following address in Envelope clearly indicating Tender Reference Number, Name of Tender and Bidder Name.

Head Contracts & Materials,  
Industrial Energy Limited,  
IEL-Kalinganagar, Duburi,  
Jajpur – 755026, Odisha.

SECOND PART: “TECHNICAL BID” shall contain the following documents:

- a) Documentary evidence in support of qualifying criteria
- b) Technical literature/GTP/Type test report etc (if applicable) .
- c) Qualified manpower, tools & tackles, equipment .
- d) Testing facilities (if applicable) .
- e) No Deviation Certificate as per the Annexure III – Schedule of Deviations
- f) Acceptance to Commercial Terms and Conditions viz Delivery schedule/period, payment terms etc. as per the Annexure IV – Schedule of Commercial Specifications.
- g) Quality Assurance Plan/Inspection Test Plan for supply items (if applicable)
- h) Safety Bid comprising of certificates of ISO 9001, ISO 14001 and ISO 45001, Manpower details, Relevant Tools and tackles, HIRA / JSA related to the job, Last 3 Years safety records.

The technical bid shall be properly indexed and is to be submitted through e-tender. Hard Copy of Technical Bids should not be submitted.

THIRD PART: “PRICE BID” shall contain only the price details and strictly in format as mentioned in Annexure I along with explicit break up of basic prices, Taxes & duties, Freight etc. In case any discrepancy is observed between the item description stated in Schedule of Items mentioned in the tender and the price bid submitted by the bidder, the item description as mentioned in the tender document (to the extent modified through Corrigendum issued if any) shall prevail. Price Bid is to be submitted in Soft Copy through Tata Power E-Tender system (Ariba) only. Hard Copy of Price Bid should not be submitted.

SIGNING OF BID DOCUMENTS:

The bid must contain the name, residence, and place of business of the person or persons making the bid and must be signed and sealed by the Bidder with his usual signature. The names of all persons signing should also be typed or printed below the signature.



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The Bid being submitted must be signed by a person holding a Power of Attorney authorizing him to do so, certified copies of which shall be enclosed.

The Bid submitted on behalf of companies registered with the Indian Companies Act, for the time being in force, shall be signed by persons duly authorized to submit the Bid on behalf of the Company and shall be accompanied by certified true copies of the resolutions, extracts of Articles of

Association, special or general Power of Attorney etc. to clearly show the title, authority and designation of persons signing the Bid on behalf of the Company. Satisfactory evidence of authority of the person signing on behalf of the Bidder shall be furnished with the bid.

A bid by a person who affixes to his signature the word 'President', 'Managing Director', 'Secretary', 'Agent' or other designation without disclosing his principal will be rejected.

The Bidder's name stated on the Proposal shall be the exact legal name of the firm.

### 3.2 Contact Information

Please note all correspondence regarding the tender, bid submission, bid submission date extension, Pre-bid query etc. will happen only through Tata Power E-Tender system (Ariba).

No e-mail or verbal correspondence will be responded. All communication will be done strictly with the bidders who have participated in the Tender as elaborated in procedure for participating in tender.

Bidders shall quote for the entire Scope of Supply / work with a break-up of prices for individual items and Taxes & duties. The bidder shall complete the appropriate Price Schedules included herein, stating the Unit Price for each item & total price with taxes, duties & freight up to destination at various sites of IEL, Kalinganagar. The all-inclusive prices offered shall be inclusive of all costs as well as Duties, Taxes and Levies paid or payable during the execution of the supply work, breakup of price constituents. The quantity break up shown else-where other than Price Schedule is tentative. The bidder shall ascertain himself regarding material required for completeness of the entire work. Any items not indicated in the price schedule, but which are required to complete the job as per the Technical Specifications / Scope of Work mentioned in the tender, shall be deemed to be included in prices.

3.4 Bid Currencies: Prices shall be quoted in Indian Rupees Only.

3.5 Period of Validity of Bids : Bids shall remain valid for 90 days from the due date of submission of the bid.

Notwithstanding clause above, the IEL may solicit the Bidder's consent to an extension of the Period of Bid Validity. The request and responses thereto shall be made in writing.



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### 3.6 Alternative Bids

Bidders shall submit Bids, which comply with the Bidding documents. Alternative bids will not be considered. The attention of Bidders is drawn to the provisions regarding the rejection of Bids in the terms and conditions, which are not substantially responsive to the requirements of the bidding documents.

### 3.7 Modifications and Withdrawal of Bids

The bidder is not allowed to modify or withdraw its bid after the Bid's submission. The EMD as submitted along with the bid shall be liable for forfeiture in such event.

### 3.8 Earnest Money Deposit (EMD)

The bidder shall furnish, as part of its bid, an EMD amounting as specified in the tender. The EMD is required to protect the IEL against the risk of bidder's conduct which would warrant forfeiture. The EMD shall be forfeited in case of:

- a) The bidder withdraws its bid during the period of specified bid validity.

Or

- b) The case of a successful bidder, if the Bidder does not accept the purchase order, or furnish the required performance security BG.

## 4.0 Bid Opening & Evaluation process

### 4.1 Process to be confidential

Information relating to the examination, clarification, evaluation and comparison of Bids and recommendations for the award of a contract shall not be disclosed to Bidders or any other persons not officially concerned with such process. Any effort by a Bidder to influence the IEL's processing of Bids or award decisions may result in the rejection of the Bidder's Bid.

### 4.2 Technical Bid Opening

The bids shall be opened internally by IEL. First the envelope marked "EMD" will be opened. Bids without EMD/ cost of tender (if applicable) of required amount/ validity in prescribed format, shall be rejected.

Next, technical bids of bidders who have submitted EMD shall be opened. Participating Bidders will get mail intimation from Tata Power E-Tender system (Ariba) when their Technical Bids are opened.



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### 4.3 Preliminary Examination of Bids/ Responsiveness

IEL will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and

whether the Bids are generally in order. IEL may ask for submission of original documents in order to verify the documents submitted in support of qualification criteria.

Arithmetical errors will be rectified on the following basis: If there is a discrepancy between the unit price and the total price per item that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price per item will be corrected. If there is a discrepancy between the Total Amount and the sum of the total price per item, the sum of the total price per item shall prevail and the Total Amount will be corrected.

Prior to the detailed evaluation, IEL will determine the substantial responsiveness of each Bid to the Bidding Documents including production capability and acceptable quality of the Goods offered. A substantially responsive Bid is one, which conforms to all the terms and conditions of the Bidding Documents without material deviation.

Bid determined as not substantially responsive will be rejected by the IEL and/or the IEL and may not subsequently be made responsive by the Bidder by correction of the non-conformity.

### 4.4 Techno Commercial Clarifications

Bidders need to ensure that the bids submitted by them are complete in all respects. To assist in the examination, evaluation and comparison of Bids, IEL may, at its discretion, ask the Bidder for a clarification on its Bid for any deviations with respect to the IEL specifications and attempt will be made to bring all bids on a common footing. All responses to requests for clarification shall be in writing and no change in the price or substance of the Bid shall be sought, offered, or permitted owing to any clarifications sought by IEL.

### 4.5 Price Bid Opening

Price Bid of only Technically and / or Safety Qualified Bidders shall be considered and opened internally by IEL.

Bidders will get mail intimation from Tata Power E-Tender system (Ariba) when their Price Bids are opened. The EMD of the bidder withdrawing or substantially altering his offer at any stage after the technical bid opening will be forfeited at the sole discretion of IEL without any further correspondence in this regard.

### 4.7 Reverse Auctions

IEL reserves the right to conduct the reverse auction (instead of public opening of price bids) for the products/ services being asked for in the tender. The terms and conditions for such reverse auction events shall be as per the Acceptance Form attached as Annexure VI of this



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document. The bidders along with the tender document shall mandatorily submit a duly signed copy of the Acceptance Form attached as Annexure VI as a token of acceptance for the same.

### 5.0 Award Decision

IEL will award the contract to the successful bidder whose bid has been determined to be the lowest-evaluated responsive bid as per the Evaluation Criterion mentioned at Clause 2.0. The Cost for the said calculation shall be taken as the all-inclusive cost quoted by bidder in Annexure I (Schedule of Items) subject to any corrections required in line with Clause 4.3 above. The decision to place rate contract / purchase order / LOI solely depends on IEL on the cost competitiveness across multiple lots, quality, delivery, and bidder's capacity, in addition to other factors that IEL may deem relevant.

IEL reserves all the rights to award the contract to one or more bidders so as to meet the delivery requirement or nullify the award decision without assigning any reason thereof.

In case any supplier is found unsatisfactory during the delivery process, the award will be cancelled and IEL reserves the right to award other suppliers who are found fit.

NOTE: Please note that intimation of Price Bid Opening will go only to those bidders who are Technically Acceptable and whose price bid are opened. Bidders who are not successful in technical or commercial part of the process will be intimated to collect EMD only after end of process.

It is informed that IEL shall not provide status updates or give explanation of process followed for bidder selection criteria whatsoever, to any participating bidder.

### 6.0 Order of Preference/Contradiction:

In case of contradiction in any part of various documents in tender, following shall prevail in order of preference:

1. Schedule of Items
  2. Post Award Contract Administration
  3. Submission of Bid Documents
  4. Technical Specifications
  5. Inspection Test Plan
  6. Acceptance Form for Participation in Reverse Auction
  7. General Conditions of Contract
- Post award of rate contract, bidder shall submit applicable Performance Bank Guarantee as per General terms and conditions of contract.



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- Any change in statutory taxes, duties and levies shall be borne by IEL.
- All other terms and conditions of IEL GCC shall be applicable.

### 7.2 Completion Period:

Mobilization period shall be 15 days from the date of issue of Purchase Order / Letter of Intent. **Contract period shall be twelve (12) months from the date of order confirmation.** Milestone(Please refer Annexure VII) must be adhere for completion of job.

### 7.3 Payment Terms: Payment terms shall be as per General terms and conditions of contract.

7.4 Climate Change: Significant quantities of waste are generated during the execution of project and an integrated approach for effective handling, storage, transportation, and disposal of the same shall be adopted. This would ensure the minimization of environmental and social impact in order to combat the climate change.

7.5 Ethics: IEL is an ethical organization and as a policy IEL lays emphasis on ethical practices across its entire domain. Bidder should ensure that they should abide by all the ethical norms and in no form either directly or indirectly be involved in unethical practice.

IEL work practices are governed by the Tata Code of Conduct which emphasizes on the following:

- We shall select our suppliers and service providers fairly and transparently.
- We seek to work with suppliers and service providers who can demonstrate that they share similar values. We expect them to adopt ethical standards comparable to our own.
- Our suppliers and service providers shall represent our company only with duly authorized written permission from our company. They are expected to abide by the Code in their interactions with, and on behalf of us, including respecting the confidentiality of information shared with them.
- We shall ensure that any gifts or hospitality received from, or given to, our suppliers or service providers comply with our company's gifts and hospitality policy. We respect our obligations on the use of third-party intellectual property and data.

Bidder is advised to refer GCC attached at Annexure VIII for more information. Any ethical concerns with respect to this tender can be reported to the following e-mail ID:

[cecounsellor@tatapower.com](mailto:cecounsellor@tatapower.com)



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### ANNEXURE – I

JOB SCOPE :

#### **Service Provider Scope:**

1. Vendor shall provide qualified and experience personnel to performed detailed engineering design for a specified scope. However, the vendor should have other functions such as planning, estimating, project controls, procurement, work supervision, project management for the development of a service small scale Project.
2. Vendor must have experience in the following areas,
  - Planning layout & details.
  - MSP documents of Schedule, Timeline & project milestone along with WBS (work break down structure) should be submitted on time.
  - Specification requisition and datasheets.
  - Structural & construction detailed drawing and calculation.
  - Estimation.
  - Construction work procedure.
  - Earth work and site drainage.
  - Concrete foundation, footing and equipment supports.
  - Road works and pavements.
  - Drainage system.
  - Plumbing.
3. All the required quality testing of consumable items like Brick, cement, Sand, aggregate, steel, mix design, cube testing etc. from third party (**From NABL accredited Lab**) is in vendor's scope.
4. All the consumable item required for the construction will be supplied by the vendor of the specific brand as specified in BOQ. Any noncompliance found at site during job is liable to be rejected by engineer in charge.
5. Vendor should provide one experienced supervisor for site supervision, who has at least 10 to 15 years of experience in the specific field.
6. Taking permit to work, tool box talk, giving all personal protective equipment as mentioned in safety terms & condition and all other statutory requirement such as ESIC, PF etc.
7. Completely eight-hour duty excluding lunch and tiffin time.
8. All the workmen will be deployed at IEL Company Colony at Khairadihi, Danagadi, Jajpur Road Odisha.
9. The mobilization of man power, fooding / lodging / boarding, movement to the site are under the scope of party.
10. Necessary formalities for gate Pass (as per Tata steel norm like medical test & police verification)) has to be understood prior to submission of techno commercial bid. All step / documentation including safety training, medical formalities are to follow as per Tata steel norms (as per IEL situated inside TSL premises, Kalinganagar).



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11. Two days of safety L1 training by TPSDI is mandatorily required before issue of permanent working gate pass (Having 3 months Validity).
12. COVID-19 precautionary measure must be taken at site and expense of the same shall be in contractors only.
13. All safety related PPE'S will be provided by the vendor such as FRP Helmet, safety shoe, face shield, face mask, full body harness.
14. Visit the site, review the site conditions and verify all dimensions as per the layout drawing provided by TATA Power Engineer.
15. Preparation of method of statement for Identify and list out the hazards involved in the activity. Hazards and its mitigation plan to be prepared and approved by safety department before starting the job. HIRA & JSA format attached.
16. All electrical/power tools must tested before commencement of job and should be provided by Vendor.
17. All the scaffolding required for construction will be provided by party and scaffolding erection & dismantling will be in in vendor's scope. The persons involved in scaffolding erection should be experienced in such work and must have undergo L1 & L2 training.
18. The scaffolding erected by vendor will be evaluated & inspected by IEL authorised Engineer in charge before commencement of work. Use of special safety equipment such as full body harness, protective eye wear, hand gloves & body suit will be in vendor's scope.
19. Vendor should provide one safety officer, who is having experience in the specific field & under gone safety certification coarse from recognised institution & submit the required documents prior to the job.
20. Day to day Housekeeping of working area. Working material should be kept in proper manner
21. All the general, lifting tools tackles required for the job will be under party's scope. Required certification for lifting tools and tackles from third party /competent person must be produced before starting of job.
22. Daily transportation/conveyance facility for bidder's workmen and materials (outside and inside Tata steel ) required for the job shall be under bidder's scope.
23. Shifting of material to & from is in vendor scope.
24. All works to be carried out by the vendor shall be strictly in adherence to the norms and methods to be fixed up by the concerned TATA POWER engineer or his authorized representative within the fixed time schedule. TATA POWER engineer shall have the right to intervene at any stage of the execution of a work.
25. Party has to follow safety norms as per requirement of Tata power. Violation of safety & environment norms may cause penalty as per CSM guidelines or termination of service orders.
26. All job execution is to be in day light only.
27. The Contractor has to arrange all tested tools and tackles, mechanical handling equipment, safety, equipment, ladders, scaffolding etc. required for the completion of the job.



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### **TERMS AND CONDITION:**

1. Party has to follow safety norms as per requirement of Tata power. Violation of safety norms may cause termination of service orders.
2. Party has to execute job up to satisfaction level to Tata power officer. Non- satisfactory performance may cause termination of job and service order consecutively.
3. During job execution if any unsafe activity noticed, gate pass of the same workmen and supervisor will be cancelled immediately with some amount of penalty to the vendor as per TATA Power guideline.
4. Not allowed to use hazards material which will impact the environment. All chemical substance must have MSDS and user must be aware at site.
5. Order manager is eligible for stop the job at any time during job execution, if the quality of the job is not as per the standard.

### **LIQUIDATED DAMAGES / PENALTY CLAUSE/PERFORMANCE CLAUSE:**

1. Safety retention @ 1.5% will be released after successful completion of the job.
2. Service performance BG(CPBG) amounting to 10% of the order value will be released after reviewing the quality of the job, six months of completion of order.
3. Service warranty period should be 12 months from the date of completion of order.

### **SERVICE PROVIDED BY IEL:-**

1. IEL will provide Electric supply and water as necessary.
2. All the required approvals for construction work from KNDA.
3. All the required approved drawings for construction.
4. All the required specification for consumable items.



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### SCHEDULES OF PERFORMANCE PARAMETERS

Sr. no.	Parameter	Weightage ( as per system criticality )	K-Factor (Availability / Performance Factor depending on Criticality) below which Penalty to be imposed	Remarks
1.	Adhere to mobilization of resources within the given schedule.	20	Within 30 days	Mobilization of resources (manpower & materials) to be done within 30 days upon receiving purchase order  <u><b>Exceptional cases:</b></u> <ol style="list-style-type: none"> <li>1. Rescheduling of job by user department.</li> <li>2. Non mobilization of resources due to strike, Lock-out, civil commotion, riot, calamity, acts of God &amp; for any reasons that is beyond control.</li> </ol>
2.	Adhere to job completion time within the given schedule.	30	a) Overall completion in 12 months  b) Completion with respect to each milestone to be ensured	<ol style="list-style-type: none"> <li>1. 100% adherence to the time limit</li> <li>2. 100% completion against each milestone.</li> </ol> <u><b>Exceptional cases:</b></u> <ol style="list-style-type: none"> <li>1. Rescheduling of job by user department.</li> <li>2. Environmental condition hampering job execution.</li> <li>3. Condition not beyond control leading to non- mobilization of manpower such as strike, riots, natural calamities etc.</li> </ol>



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3.	Adhering to all safety guidelines as detailed in Scope of work / IEL safety guidelines	10	100%	<ol style="list-style-type: none"> <li>1. 100% safety guidelines inside premises to be followed applicable penalty will be imposed if violation is observed.</li> </ol>
4.	Adherence to material quality  (No unbranded or inferior quality material is allowed)	10	100%	<ol style="list-style-type: none"> <li>1. Materials quality to be ensured as per scope of work &amp; BOQ, vendor is liable for penalty if found using materials other than as mentioned in scope of work.</li> </ol>
5.	No environmental issue should occur during the execution of the work	10	0 nos.	<ol style="list-style-type: none"> <li>1. Storing of all to be ensured by vendor, all materials to be stored in such a way that it should not create any environmental &amp; fire hazard.</li> <li>2. No spillage of paint is allowed during the job.</li> <li>3. No effluent /waste disposal directly to the surroundings Disposal guidelines to be followed by taking consent from concerned authority.</li> </ol>
6.	No safety observation/violation & delay in job allowed in terms of defective tools tackles/no tool tackles/inadequate tools tackles/low manpower/no manpower.	10	0 nos.	<ol style="list-style-type: none"> <li>1. All standard tools &amp; tackles should be use, no substandard tools are allowed in the job.</li> <li>2. No delay in job due to unavailability of standard tools is allowed.</li> <li>3. No delay in job due to non-availability of materials</li> <li>4. No delay in job due to No or less manpower.</li> </ol>
7.	Restoration of housekeeping after the job	10	100%	<ol style="list-style-type: none"> <li>1. Proper housekeeping should be done at the area of work and material storage area.</li> </ol>

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### 1. Liquidated Damages/Penalties

1.1 Availability / Performance Factor of job as mentioned shall be as tabulated above and the liquidated damages (LD)/Incentive shall be imposed in case the availability reduces below the desired K-Factors (Availability Factors) as stipulated under the ANNEXURE.

1.2 The Liquidated Damages shall be calculated as per the formulae below:  $LD = \Delta \times \text{weightage} \times 10\%$  of the contract price

$\Delta$ : Difference between desired K- factor and actual K- Factor (availability).

1.3 Notwithstanding anything to the contrary in the Contract, the overall cap of penalty and liquidated damages shall not exceed 10% of the Contract Price.

### BOQ details is as follows:

Sr. No.	Service Code	Service Shot Text	Column1	Unit	Quantity
1	4159251	CISE, CLEARING VEGETATION UPTO 500M	Site Cleaning Works. Clearing the site of all vegetation and structures, if any, covering the area of project area including transportation of the debris and cleared vegetation to dumping ground within a lead of 1000 metre all as directed by ENGINEER. Beyond initial lead of up to 500m.	SQM	800
2	4159257	CISE, EBD ALL SOIL WITHN 100M 0-2M	Earth Works Earth work in excavation in all kind of soil by mechanical means / manual means in foundation trenches, drains, etc. including clearing the site, necessary shoring & strutting, dewatering, getting out the excavated soil, sorting and stacking of useful material, dressing of the sides, ramming of bottom, backfilling into trenches with compaction (95% Proctor density) and disposal of surplus excavated earth within a lead of 100 mtr incl. all lifts within the site as directed by engineer-in-charge. (For all civil, plumbing & electrical works) Depth up to 2.0 m	CUM	40
4	4135904	P/F BRICK MASONRY 230MM SUPERSTRUCTURE	General Building Works. MASONARY, PLASTER, WATER PROOFING AND ALLIED WORK . Providing Flyash Brick Masonry (Charbhuj Infrastructure make or equivalent make), 230 mm thick and above in cement mortar 1:5 (1 cement: 5 coarse sand) using best quality locally available flyash blocks having crushing strength of 50 Kg/sqcm and water absorption not more than 10%, in superstructure for walls, parapets, etc., at all levels, including scaffolding, curing, raking of joints, providing RCC transomes and mullions of grade M15 including shuttering, etc. complete. (reinforcement and concrete for transomes and mullions shall be paid separately in respective items)	CUM	209.631

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5	4135907	P/F BRICKMASONRY 110MM THK	General Building Works. MASONARY, PLASTER, WATER PROOFING AND ALLIED WORK . Providing Flyash Brick Masonry (Charbhuj Infrastructure make or equivalent make) 110 mm thick in cement mortar 1:4 (1 cement : 4 coarse sand) using best quality locally available first class kiln blocks having crushing strength of 50 Kg/sqcm and water absorption not more than 10%, in superstructure for walls, parapets, etc., at all levels including scaffolding, curing, raking of joints, providing RCC transomes and mullions of grade M15 including shuttering, etc. complete. (reinforcement and concrete for transomes and mullions shall be paid separately in respective items)	SQM	585.325
6	4052691	P/L UCR MASONRY (1:5)	General Building Works. MASONARY, PLASTER, WATER PROOFING AND ALLIED WORK . Providing and constructing Un-coarsed Random Rubble Stone Masonry (UCR Masonry) with rubble brought from out side in required thickness at all locations and levels using approved local stone in size not exceeding 230 mm, in Cement sand Mortar 1:5 including placing of headers, watering, curing, scaffolding, raking of joints and flush pointing in 1 : 3 cement sand mortar, wedging stone chips, making provisions for weep holes etc. complete as directed by the Engineer.	CUM	6
7	4075009	WATER PROOFING TREATMENT FOR ROOF	General Building Works. MASONARY, PLASTER, WATER PROOFING AND ALLIED WORK . Providing laying and fixing in position water proofing treatment for roof using High Solid content liquid applied urethane based elastomeric membrane to give uniform joint less dry film thickness of minimum 1.5 mm (as per ASTM C 836 and C 898) laid over reinforcing layer of polyscrim cloth or non woven geo-textile, including all labour, material, equipment, workmanship, preparation of working drawings, preparatory work, applying primer coat of polymerised mastic to achieve smooth surface, laying reinforcing layer of polyscrim cloth or non woven geo-textile, finishing with elastomeric membrane, including sealing of joint at junction of horizontal surfaces with vertical surfaces and at panel junctions of wearing course by non-bitumastic sealant/ elastomeric compound etc at all levels and for all type of work, in vertical and horizontal surfaces, handling, transporting, testing etc,all complete as per specifications drawings, and instructions of the ENGINEER.	SQM	835
8	4120192	PROV,LAY WP TREATMENT WCS,BATHROOMS	General Building Works. MASONARY, PLASTER, WATER PROOFING AND ALLIED WORK . Providing and laying water proofing treatment in sunken portion of WCs, bathrooms, etc., by applying cement slurry mixed with Armourcrete of M/s The Structural Water Proofing Company Pvt. Ltd. or Tapecrete of M/s. CICO Engg. Service or approved equivalent consisting of applying : (a)First layer of slurry of cement @0.488 kg/sqm mixed with Armourcrete or Tapecrete @ 0.253 kg/sqm. This layer shall be allowed to air cure for 4 hours. (b)Second layer of slurry of cement @ 0.242 kg/sqm mixed with Armourcrete or Tapecrete @ 0.126 kg/sqm. This layer shall be allowed to air cure for 4 hours followed with water curing for 48 hours. (c)All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-. The rate includes preparation of surface, treatment	SQM	200

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			and sealing of all joints, corners, junctions of pipes and masonry with polymer mixed slurry.		
9	4120193	PROVIDE,LAY BRICKBAT COBA WCS,BATHROOMS	Providing and laying brickbat coba in sunken portion of WCs, bathrooms, etc., consisting of one part of cement, 2 parts of broken brickbats varying from 12 mm to 25 mm thick and one part of lime mortar (one part of lime to two parts of sand) as specified including preparing the surface by applying and grouting a slurry coat of neat cement using 2.75 kg/m <sup>2</sup> of cement admixed with proprietary water proofing compound conforming to IS: 2645 over the RCC slab including cleaning the surface before treatment, necessary watering, ramming, etc. all complete (Rate shall include wattas, finishing, etc.) (Thk/Depth up to 250mm.). All above operations to be done in order and as directed and specified by the Engineer-in-Charge. Contractor shall give 10 years guarantee on court fee stamp paper of Rs. 1000/-.	SQM	100
10	4078860	INTERNAL CEMENT PLASTER 6 MM THICK	Providing internal cement plaster 6 mm thick to ceiling in a single coat in cement mortar 1:4 to rough/fair concrete surface, in all positions with hacking, surface preparation, including scaffolding, curing, grooves, bands, drip moulds, etc. complete.	SQM	700
11	4147882	INTERNAL CEMENT PLASTER 12MM THK	Providing internal cement plaster 12 mm thick plain finish in single coat in cement mortar 1:4 with hacking, surface preparation, including scaffolding and curing, grooves, bands, drip moulds, including providing and fixing chicken mesh of 22 gauge, with about 15 cm width of approved quality at the junction of reinforced cement concrete members and brick work, including fixing mesh in position by necessary drilling in concrete/ B.B masonry, etc. complete.	SQM	2000
13	4120196	P/A 20MM THICK EXT. SAND FACED PLASTER	Providing & applying 20 mm thick external sand faced plaster in cement mortar 1:4 using addition of integral water proofing compound 100% virgin polypropylene fibrillated fibres @125 gm/bag of cement as per manufacturer's specifications waterproofing compound of approved make as per the manufacturer's specifications, in two layers (first layer of 14 mm thickness and the second layer of 6 mm thickness) on all types of external surfaces using coarse, clean sand including surface preparation, curing both the coats, bends, grooves, drip moulds and all scaffolding, curing, including providing and fixing chicken mesh of 22 gauge, with about 15 cm. width of approved quality	SQM	2500

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			at the junction of reinforced cement concrete members and brick work, including fixing mesh in position by necessary drilling in concrete/ B.B masonry, etc. complete.		
13	4210112	CISE,P/A 20MM STONECRETE PLASTER	Providing & applying 20 mm thick external sand faced stonecrete plaster of vyra or equivalent make in cement mortar 1:4 using addition of integral water proofing compound 100% virgin polypropylene fibrillated fibres @125 gm/bag of cement as per manufacturer's specifications waterproofing compound of approved make as per the manufacturer's specifications, in two layers (first layer of 14 mm thickness and the second layer of 6 mm thickness) on all types of external surfaces using coarse, clean sand including surface preparation, curing both the coats, bends, grooves, drip moulds and all scaffolding, curing, including providing and fixing chicken mesh of 22 gauge, with about 15 cm. width of approved quality at the junction of reinforced cement concrete members and brick work, including fixing mesh in position by necessary drilling in concrete/ B.B masonry, etc. complete.	SQM	53
14	4055349	CISE,P/L KOTA ON FLOOR AVG 25 MM THK	Flooring Dado. Providing and laying average 25mm thick hand dressed/machine cut green polished kotah of approved quality, selected and sorted for uniform colour, in floor, otta and skirting etc. In required sizes up to 60 cm(finish) and as per design in normal pattern (square or rectangular) and residue as per drawing, including cement mortar 1:6 bedding up to 40 mm thickness, jointed with grey cement as specified, six or more than six coats of polishing (final polishing with oxalic acid & jute data) semi mirror finish surfaces with different grades of Emery from 40 no (one coat) 60 no (two coats) 120 no (1coat), gutaka(1 coat),Black Chapadi(1 coat) , 120 no synthetic emery and buffing with tin oxide ,curing, daily moping with water & kerosene as directed for at least 15 days after final polishing or up to the satisfaction of the Engineer-in-charge etc. complete, (NO WAXING WILL BE PERMITTED) and for all heights.	SQM	125
15	4135921	P/L DADO OR SKIRTING OR RISERS OF KOTA	Flooring Dado. Providing and laying average 25mm thick hand dressed/machine cut green polished kotah of approved quality, selected and sorted for uniform colour, in floor, otta and skirting etc. In required sizes up to 60 cm(finish) and as per design in normal pattern (square or rectangular) and residue as per drawing, including cement mortar 1:6 bedding up to 40 mm thickness, jointed with grey cement as specified, six or more than six coats of polishing (final polishing with oxalic acid & jute data) semi mirror finish surfaces with different grades of Emery from 40 no (one coat) 60 no (two coats) 120 no (1coat), gutaka(1 coat),Black Chapadi(1 coat) , 120 no synthetic emery and buffing with tin oxide ,curing, daily moping with water & kerosene as directed for at least 15 days after final polishing or up to the satisfaction of the Engineer-in-charge etc. complete, (NO WAXING WILL BE PERMITTED) and for all heights. As per item above but in dado skirting and risers except the stone shall be fixed in 20mm thick cement mortar 1:4 instead of 1:6 cement mortar of 40mm thickness up to the	SQM	20

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			satisfaction of the Engineer-in-charge etc. complete, (NO WAXING WILL BE PERMITTED).		
16	4078833	KOTA OF COLOUR IN TREAD OF STEPS & STAIR	Flooring Dado. Providing and laying average 25mm thick hand dressed/machine cut green polished kotah of approved quality, selected and sorted for uniform colour, in floor, otta and skirting etc. In required sizes up to 60 cm(finish) and as per design in normal pattern (square or rectangular) and residue as per drawing, including cement mortar 1:6 bedding up to 40 mm thickness, jointed with grey cement as specified, six or more than six coats of polishing (final polishing with oxalic acid & jute data) semi mirror finish surfaces with different grades of Emery from 40 no (one coat) 60 no (two coats) 120 no (1coat), gutaka(1 coat),Black Chapadi(1 coat) , 120 no synthetic emery and buffing with tin oxide ,curing, daily moping with water & kerosene as directed for at least 15 days after final polishing or up to the satisfaction of the Engineer-in-charge etc. complete, (NO WAXING WILL BE PERMITTED) and for all heights. As per item above but in treads of steps and staircase in one piece with rounded nosing and 3 Nos of anti skid grooves except the stone shall be fixed in 20mm thick cement mortar 1:4 instead of 1:6 cement mortar of 40mm thickness up to the satisfaction of the Engineer-in-charge etc. complete, (NO WAXING WILL BE PERMITTED).	SQM	20
17	4056624	CISE,P/L GRANITE POLISHED IN FLOOR	FLOORING, DADO. Providing & laying approved quality mirror finished light and/or dark grey, black or brown granite of approved shade in floor, thickness 18 mm., as per design and in required sizes (not exceeding 1.5 m. x .6 m.) and shapes, including necessary cement mortar bedding in 1:2. bedding to give an overall thickness of 50 mm including cement float, filling joints with neat cement slurry mixed with matching colour pigment, curing, rubbing, machine polishing and cleaning complete at all levels. (Only finished granite work shall be measured). The rate includes rounding, champhering and mirror polishing of edges and for all heights.	SQM	25
18	4056623	CISE,P/L GRANITE POLISHED IN DEDO/STEPS	Providing & laying approved quality mirror finished light and/or dark grey, black or brown granite of approved shade in dado or skirting , thickness 18 mm., as per design and in required sizes (not exceeding 1.5 m. x .6 m.) and shapes, including necessary cement mortar bedding in 1:2. bedding to give an overall thickness of 50 mm including cement float, filling joints with neat cement slurry mixed with matching colour pigment, curing, rubbing, machine polishing and cleaning complete at all levels. (Only finished granite work shall be measured). The rate includes rounding, champhering and mirror polishing of edges and for all heights.	SQM	8

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19	4056622	CISE,P/L GRANITE EXTRA FOR STONE TREADS	FLOORING, DADO. Providing & laying approved quality mirror finished light and/or dark grey, black or brown granite of approved shade in treads of steps and staircase in one piece with rounded nosing and 3 Nos of anti skid grooves on 1:4 cement mortar ( 1 cement : 4 course sand ) bedding to give an overall thickness of 50 mm including cement float, filling joints with neat cement slurry mixed with pigment to match shade of white marble , curing, rubbing, polishing and cleaning complete at all levels. Thickness 18 mm., as per design and in required sizes (not exceeding 1.5 m. x .6 m.) and shapes, including necessary cement mortar bedding in 1:2. bedding to give an overall thickness of 50 mm including cement float, filling joints with neat cement slurry mixed with matching colour pigment, curing, rubbing, machine polishing and cleaning complete at all levels. (Only finished granite work shall be measured). The rate includes rounding, champhering and mirror polishing of edges and for all heights.	SQM	20
20	4055344	CISE,P/L MARBLE GREEN 18 MM THICK	FLOORING, DADO. Providing & laying approved quality green (dark Baroda kesariyaji green or of approved origin) marble 18 mm. thick, as per design and in required sizes and shapes (size not exceeding 0.9 m. x 0.6 m.), including necessary cement mortar bedding of 1:6 proportion and white cement pointing in joints, polishing, curing etc. complete. (Only finished marble work shall be measured). The work will be carried out in diagonal pattern with motives and to form bands as per detailed drawings and direction and for all heights.	SQM	42.562
21	4159267	CISE,P/L MARBLE GREEN 18MM DADO	FLOORING, DADO. Providing & laying approved quality green (dark Baroda kesariyaji green or of approved origin) marble 18 mm. thick, as per design and in required sizes and shapes (size not exceeding 0.9 m. x 0.6 m.), including necessary cement mortar bedding of 1:6 proportion and white cement pointing in dado skirting except the stone shall be fixed in 20mm thick cement mortar 1:4 instead of 1:6 cement mortar of 40mm thickness, polishing, curing etc. complete. (Only finished marble work shall be measured). The work will be carried out in diagonal pattern with motives and to form bands as per detailed drawings and direction and for all heights.	SQM	11
22	4055347	CISE,PRVD STRIP ROUGHNED 2.5 CM WIDE	FLOORING, DADO. Providing roughened strip 2.5 cm. or wider to form antiskid surface on any flooring as per design, including forming straight deep curved gishi (groove), 6 mm. Wide & 4 mm deep on two sides of the roughened area, chiseling, polishing the edges, sides and bottom of gishis etc. complete as per sample approved and for all heights.	SQM	2

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23	4056248	CISE,CISE,P/L VITRIFIED TILES 300X300	FLOORING, DADO. Providing and fixing 300 mm x 300 mm x 12 mm thick Vitrified tiles of Nitco Cosmic Ultra Charge or equivalent / Kajaria / Johnson approved quality and shade in flooring and skirting, on a 20 mm thick bedding of 1:3 cement mortar and jointed with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, etc. complete.	SQM	15
24	4055437	CISE,P/L VITRIFIED TILES 600X600	FLOORING, DADO. Providing and fixing 600 mm x 600 mm x 12 mm thick Vitrified tiles of Nitco Cosmic Ultra Charge or equivalent / Kajaria / Johnson approved quality and shade in flooring and skirting, on a 20 mm thick bedding of 1:3 cement mortar and jointed with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, etc. complete.	SQM	1000
25	4135930	P/F CERAMICGLOSSY TILES IN DADO 300X300	FLOORING, DADO. Providing and fixing 300X300 mm 10 mm thick Ceramic glossy finish tiles of Nitco / Kajaria alps blanco/ Sand Stone Blanco/ Johnson flutes jutes/ Serbia Copper/ Radiant Brown or equivalent approved quality and shade in dado on a 20 mm thick bedding of 1:3 cement mortar and jointed with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, etc. complete.	SQM	450
26	4135931	P/F CERAMICGLOSSY TILES IN DADO 450X300	FLOORING, DADO. Providing and fixing for 450x300 mm 10 mm thick Ceramic glossy finish tiles of Nitco / Kajaria alps blanco/ Sand Stone Blanco/ Johnson flutes jutes/ Serbia Copper/ Radiant Brown or equivalent approved quality and shade in dado on a 20 mm thick bedding of 1:3 cement mortar and jointed with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, etc. complete.	SQM	15
27	4135932	P/F CERAMICGLOSSY TILES DADO 300X600	FLOORING, DADO. Providing and fixing for 300x600mm 10 mm thick Ceramic glossy finish tiles of Nitco / Kajaria alps blanco/ Sand Stone Blanco/ Johnson flutes jutes/ Serbia Copper/ Radiant Brown or equivalent approved quality and shade in dado on a 20 mm thick bedding of 1:3 cement mortar and jointed with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, etc. complete.	SQM	200

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28	4127479	P&L FOR FLOORING, ANTISKID VITRIFIED TI	FLOORING, DADO. Providing and laying for flooring, Antiskid vitrified tiles 600 mm x 600 mm x 12 mm thick of Nitco / Kajaria / Johnson approved quality and shade in required position on 20 mm thick 1:4 cement mortar bedding including cement float, filling joints with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, finished to line, length and slope as required, etc. complete.	SQM	150
29	4159268	CISE,PL RUSTIC VITRIFIED TILE 600X600X12	FLOORING, DADO. Providing and laying for flooring, rustic vitrified tiles 600 mm x 600 mm x 12 mm thick of Nitco / Kajaria / Johnson approved quality and shade in required position on 20 mm thick 1:4 cement mortar bedding including cement float, filling joints with white/ coloured cement slurry, cutting of tiles to required size, cleaning, curing, finished to line, length and slope as required, etc. complete.	SQM	215
30	4135943	P/A CEMENT BASED WHITE PUTTY	FINISHES, PAINTING Providing and applying cement based white putty in two coats over a plastered surface to give a smooth levelled finish to receive paint. Surface to be pre-wetted and made free of any loose particles and stains etc. The cost shall include all labour, materials, etc complete.	SQM	4000
31	4078851	ACRYLIC EMULSION(WASHABLE)EXTERNAL PAINT	FINISHES, PAINTING Providing and applying three coats of acrylic emulsion (washable) external paint of Asian make ACE / Nerolac Suraksha / ICI Dulux Super Coat or approved equivalent with required shade over a coat of primer on all exterior surfaces at all levels, including making good the damaged and rough surface, cleaning, curing, all scaffolding, etc., complete as per manufacturer's specifications and as directed by the Engineer.	SQM	1000
34	4141757	CISE, PRO & APP CEMENT BASED EXTERIOR P	FINISHES, PAINTING. Providing and applying three coats of cement based exterior paint of Asian make ACE / Nerolac Suraksha / ICI Dulux Super Coat or approved equivalent with required shade over a coat of primer on all exterior surfaces at all levels, including making good the damaged and rough surface, cleaning, curing, all scaffolding, etc., complete as per manufacturer's specifications and as directed by the Engineer.	SQM	2000

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34	4138703	DISTEMPERING TWO COATS WITH OIL BOUND WA	FINISHES, PAINTING Providing and applying two coats of first quality Oil Bound Distemper internal paint of approved colour and shade over one coat of primer, including scaffolding, preparing the surface to receive the primer and finishing coats complete.	SQM	920
34	4135949	P/F GRANITE SILL ON WINDOW 15MM THK	Providing and fixing 15 mm thick black granite on window sill 20 mm thick cement mortar 1:3 including polishing to exposed edges, cement float, filling joints with neat cement slurry mixed with pigment to match shade of marble, raking and finishing the joints with silicon sealant, curing, rubbing, polishing and cleaning complete at all levels 2nos in steps with minimum 50mm overlapping and maximum of 300mm width in combination.	RM	220
#REF!	4092009	ACRYLIC EMULSION PAINT ON INTERIOR SURFA	FINISHES, PAINTING Providing and applying two coats of first quality Acrylic washable internal paint of approved colour and shade over one coat of primer, including scaffolding, preparing the surface to receive the primer and finishing coats complete.	SQM	1500
36	4078848	PANTRY PLATFORM 675 MM DEEP AND 820 MM	Providing and fixing in position Kitchen platform 675 mm deep and 820 mm high consisting of 50 mm thick sandwiched Kadappa verticals with 25 mm thick horizontal Kadappa shelves , 20 mm thick black Granite for counter top over 40 mm thick Kadappa stone slab with 20 mm thick jambs and facial patti with nosing in polished Granite, (all Kadappa stone slabs shall be single polished) including making chases in walls and floor and finishing neat with cement mortar 1:2 and including providing supporting arrangement with Kadappa stone slab and mortar filling for Stainless Steel sink, all complete as directed by Engineer-in -Charge. All exposed edges of Kadappa and Granite to be polished to the satisfaction of the Engineer as per the design (Supply and fixing of Stainless Sink sink shall be paid separately).	SQM	56
37	4135952	P/F FAN HOOKS	Supplying and fixing fan hooks made of 12 mm diameter Mild Steel (MS) rod of 1000 mm length including necessary bend, etc. complete.	NOS	55

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38	4055599	CISE,P/F WINDOW OPENABLE/CASEMENT ALUMIN	<p>i) DOORS, WINDOWS Operable (casement) window Providing and fixing in position factory assembled aluminium window frame, openable shutter on friction hinge or on special butt hinge, fixed window, sliding window, operable louvers, fixed louvers etc manufactured by Domal or Equivalent including all types necessary fixing accesories and hardware ecommended by the company including glass or any other panel as per drawing complete as approved by the EIC. Rate quotated shall be inclusive of All hard wares, fixtures and fittings along with all finishing paints / polish / coatings etc. of make approved by engineer in charge complete.</p> <p>For Fire rated doors, it shall be ensured that the overall integrity and performance is maintained, together for the complete assembly of Frames, shutters and Hard wares.</p> <p>Bidders shall submit Hardware schedules for different types of doors along with the bid offers.</p> <p>DOORS, WINDOWS Providing and fixing in position factory assembled aluminium window frame, openable shutter on friction hinge or on special butt hinge, fixed window, sliding window, operable louvers, fixed louvers etc manufactured by Domal or Equivalent including all types necessary fixing accesories and hardware ecommended by the company including glass or any other panel as per drawing complete as approved by the EIC.</p>	SQM	198
39	4159269	CISE,P/F SLIDING WINDOW 4TRACKS W/ NET	<p>ii) DOORS, WINDOWS Sliding window upto 4 tracks with additional track for mosquitonet Providing and fixing in position factory assembled aluminium window frame, openable shutter on friction hinge or on special butt hinge, fixed window, sliding window, operable louvers, fixed louvers etc manufactured by Domal or Equivalent including all types necessary fixing accesories and hardware ecommended by the company including glass or any other panel as per drawing complete as approved by the EIC.</p>	SQM	160
40	4055459	CISE,P/F WINDOW FIXED TYPE ALUMINIUM	<p>iii) DOORS, WINDOWS Fixed window Providing and fixing in position factory assembled aluminium window frame, openable shutter on friction hinge or on special butt hinge, fixed window, sliding window, operable louvers, fixed louvers etc manufactured by Domal or Equivalent including all types necessary fixing accesories and hardware ecommended by the company including glass or any other panel as per drawing complete as approved by the EIC.</p>	SQM	120
43	4128159	GLAZED ANODISED ALUMINIUM GLASS LOUVER	<p>iv) DOORS, WINDOWS Glass louvers Providing and fixing in position factory assembled aluminium window frame, openable shutter on friction hinge or on special butt hinge, fixed window, sliding window, operable louvers, fixed louvers etc manufactured by Domal or Equivalent including all types necessary fixing accesories and hardware ecommended by the company including glass or any other panel as per drawing complete as approved by the EIC.</p>	SQM	30

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42	<b>4127227</b>	RCC JALI	Providing and fixing 25 mm thk. RCC jali for building utility shafts for all heights including scaffolding etc complete as directed by owners engineers. Jali design as approved by owner's architect.	SQM	12
43	<b>4055451</b>	CISE,P/F DOOR FRAME	Providing & fixing in position door frame, including grooves on both sides and 2 rebates for on frame, made from best quality selected well seasoned Sal wood including smoothening, sand papering, making the edges rounded fixing the same using appropriate anchor fasteners of Hilty or equivalent viz HRD UGT 10x120/50 – 2 nos in each vertical and horizontal frame member and 3 coats of synthetic enamel painting including one coat of wood primer & lapi coat / oil and water finished polishing to wooden surfaces , all as per approved drawing, design & direction, sample to be got approved by Engineer-in-charge, etc. complete.	CUM	4
44	<b>4116255</b>	CISE,SOLID CORE FLUSH TYPE DOOR	Providing and fixing solid core flush type (decorative – both side laminate) door of approved manufacturer like Kit, Anchor or equivalent (Battens should be chemically treated & kiln seasoned & binding agent should be phenol phormaldihide) and of required size, as per approved drawing, design and direction. The rate shall also include external lipping of 20 mm thickness of seasoned teak wood equivalent to best quality Ghana teak all around and both sides provided with selected / approve teak veneer (machine pressed) applying oil and water finish polish / lacquer polish to all veneer and wood surfaces as approved by EIC. Sample to be got approved by Engineer-in-charge. The flush door thickness shall be 32mm thick. (Marine treated) (Necessary hardware like hinges, pivot, handle, tower bolts, locks etc shall be separately measured and paid in the relevant tender items.) Laminate shall be 1mm thick on both sides of make Signature, Greenlam, Century or equivalent.	SQM	120
45	<b>4055383</b>	CISE,P/F DEAD LOCK 7 LEVER	Providing & fixing dead lock of Godrej or equivalent 7 lever in doors with necessary screws and as per drawing, complete as approved by Engineer-in-charge. Supplying and fixing heavy quality fixtures and fittings for doors, windows, ventilators with necessary screws, nails, machine pins etc. at all floor levels complete. The fittings and fixtures shall be of Electroplating and Polishing Works or equivalent as approved by Engineer-in-charge. The fixture & fastenings shall be provided as under	NOS	15

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46	4055889	CISE,P/F PIN CYLINDER LOCK	Providing & fixing pin cylindrical lock(7") of Godrej Product code : 4208 or Equivalent in doors with a pair of key hole plate with necessary screws etc complete and as per drawing, complete as approved by Engineer-in-charge. Supplying and fixing heavy quality fixtures and fittings for doors, windows, ventilators with necessary screws, nails, machine pins etc. at all floor levels complete. The fittings and fixtures shall be of Electroplating and Polishing Works or equivalent as approved by Engineer-in-charge. The fixture & fastenings shall be provided as under	NOS	50
47	4055379	CISE,P/F HANDLE PULL PUSH 150 MM LONG	Providing & fixing 150MM diameter SS 316 satin (brush) finish push-pull handles (simple or offset type)- in pair of two, of EPPW or equivalent with necessary screws etc. complete, as per drawing as approved by Engineer-in-charge.	NOS	15
53	4116250	CISE, SS 316 SATIN FINISH TOWER BOLT	Providing & fixing 200 mm satin nickle finish brass or SS 316 brush finish tower bolt of EPPW or equivalent in wooden doors/Alluminium doors, with necessary screws etc. complete as approved by Engineer-in-charge.	NOS	110
49	4116248	CISE, PVC DOOR BUFFER	Providing & fixing 75 - 100 mm white PVC door buffer with necessary screws etc. complete as approved by Engineer-in-charge.	NOS	110
50	4055600	CISE,P/F ALDROP OF SS 316	Providing & fixing 5/16 ", 1' long Aldrop in satin nickle finish brass or SS 316 brush finish with necessary screws etc. complete of EPPW or equivalent as approved by EIC.	NOS	10

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51	<b>4159270</b>	CISE,P/F BRASS EYE PIECE	Providing & fixing brass eye piece of heavy quality with necessary screws etc. complete of EPPW or equivalent as approved by EIC.	EA	10
52	<b>4113597</b>	CISE,SS 304 RAILING ( AS INSTRUCTED BY M	Providing,Fabrication,Erection,Alignment,Welding,etc., of stainless steel Railing for staircase/ ramp/ floors 900 mm High with AISI 304 SATIN Polished steel with with main 50mm dia SS pipe as main runner and 25mm dia pipe at 3 levels along the running length of the staircase and vertical supports in 35mm dia SS pipes @1200mm c/c, the pipe to be 1.5mm thick including stainless steel beading / stainless steel cleats / stainless steel fasteners, toe guard plate wherever specified; of grade SS:304,annealed ,pickled and polished to bright finish, in square / round shape, including all material, equipment, handling, transportation, cutting, bending, welding, fastening, preparation and checking of fabrication drawing, and getting the same approved, site fabrication,testing,etc.,all complete, as per specification,drawings,and instruction of the Engineer.	RM	55
53	<b>4131256</b>	"SS HAND RAILING WALL MOUNTED "	Providing, fabricating and fixing in position SS Hand Rail along walls with SS Pipe 50 mm dia and min. 1.5mm thick wall with all necessary fitting as the main runner joined to 25mm dia SS pipe and vertical bracket 2mm thick held on to walls by means of fasteners base plates to be @ every 1000mm c/c etc. complete.	RM	200
55	<b>421024</b>	P/F Colour paver block 35 N / MM		SQM	636

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55	4159273	CISE,P/F COLOR PAVER BLOCK 20N/MM	<p>Site Development Works Central Landscape Providing and laying 60mm thick precast concrete paver blocks as grass pavers having compressive strength not less than 20N/mm<sup>2</sup> of approved, make, pattern, colour, over a layer of sand (75mm thick minimum compacted thickness of sand - cost included in this item) with necessary compaction etc complete at the locations shown in drawings all executed as per relevant IRC specifications and directions of the Engineer</p>	SQM	150
56	4135361	S/F .55MM GALVALUME SHEET FOR ROOF	<p>Parking. Providing all materials, tools, tackles, accessories, labour etc., complete for single sheet roofing in straight profile with colour coated troughed galvalume coated mild steel (fy = 550 MPa minimum) with minimum base metal thickness of 0.5 mm, with galvalume coating of 150 gms / sqm on both sides. The cost includes ridge pieces, flashings, laps, bolts, washers, making openings etc. (Note: Only the covered surface areas shall be paid in square metres)</p>	SQM	400
57	4078788	STONEWARE GULLY TRAP 150 X 100MM	<p>EXTERNAL DRAINAGE Construction of best quality approved make stoneware gully trap 150 x 100mm with D.I. Grating including embedding trap in cement concrete 1:4:8 and constructing chamber of size 300 x 300mm x 300mm deep inside clear in brick masonry 230mm thick in cement mortar 1:3, 12mm thick water proof cement plaster in cement mortar 1:3, inside finished with floating coat of neat cement and rough finished outside, providing and fixing D.I. frame and hinged cover 300mm (clear opening) weighting not less than 8.0 Kgs. painting with three coats of anti-corrosive black bitumastic paint, all complete as per specifications of the Engineer-in-Charge. (Excluding Excavation).</p>	Nos	1
58	4159327	CISE,C 250MM BRICK MASON WALL CM1:3	<p>EXTERNAL DRAINAGE Construction of inspection chamber of internal dimension of 900x600mm upto depth of 1500mm outside plant area constituting of following items:-250 mm thick best quality approved brick masonry walls in CM 1:3.</p>	EA	10
59	4151063	CONSTRUCTION OF CIRCULAR SEWER MANHOLES	<p>Construction of circular sewer manholes more than 1500mm depth and less than 2300mm having clear internal dia. At the top 600mm and 1200mm at the bottom with 230mm thick brick masonry in cement mortar 1:3, M:15 cement concrete foundation, 230mm thick, haunches and benching in M:15 cement concrete, water proof cement plaster 1:3 &amp; 12mm thick both internal and external surface finished with floating coat of neat cement providing and fixing C.I. steps weighing not less than 5.3 kg. each as required at 340mm centre to centre, D.I. circular type cover &amp; frame of internal dia. 600mm heavy type weighing not less than 175 Kg. (Grade C-250) fixed over 100mm thick R.C.C. coping in M:15 cement concrete provided</p>	EA	6

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			with M.S. reinforcements of 10mm dia. rods at 100mm centre both ways painting the frame, cover & steps with two coats of anticorrosive bitumastic paint, testing, all complete as per specifications outside plant area. (Excluding Excavation).		
60	4159328	CISE,P/F STONEWARE MASTER TRAP 200MM	Providing and fixing in manhole best quality approved make salt glazed stoneware master trap including making necessary connections, providing and fixing cleaning plug, embedding in concrete M:15 all complete. 200mm dia.	EA	6
63	4078786	1:3:6 CEMENT CONCRETE FOR BEDDING, PIPE	Providing and laying 1:3:6 cement concrete for bedding, pipe supports and encasing the pipes, including necessary form work, compaction, curing de-watering, etc. All complete as per specifications and directions of the Engineer-in-Charge.	CUM	2
62	4075040	CLASS NP 3 HUME PIPE 200MM DIA	Providing & laying 200MM DIA RCC NP3 class Hume pipe conforming to IS 458 in slope with RCC collar in cement sand joint in 1:3 proportion including cutting the pipes to required length, complete.	RM	
63	4135423	P/L RCC HUME PIPE 300MM DIA	Providing & laying 300 MM DIA RCC NP3 class Hume pipe conforming to IS 458 in slope with RCC collar in cement sand joint in 1:3 proportion including cutting the pipes to required length, complete.	RM	



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64	4120308	P/L HDPE 150 DIA PIPE	Providing and fixing, underground or below floor high density Polyethylene (HDPE) pipes 150 mm dia – Hasti or equivalent approved make (for water supply/drainage purpose) for the diameters as specified in BOQ, and all type of fittings readymade or fabricated, including jointing using butt welding, testing, etc. complete, with a working pressure of 6 Kg/cm2. The items such as excavation, back filling, PCC, sand filling etc shall be paid in relevant tender item.	M	50
65	4135462	P/L CPVC PIPE 15MM DIA	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) of 15 mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS at all levels. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc., with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary scaffolding, drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.	M	9
66	4135463	P/L CPVC PIPE 20MM DIA	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) of 20mm dia SDR.11, ASTM CTS, and of 20mm dia CPVC schedule 40 ASTM IPS at all levels. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc., with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary scaffolding, drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.	M	100
67	4135464	P/L CPVC PIPE 25MM DIA	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) of 25mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS at all levels. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc., with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary scaffolding, drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge.	M	10



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			<p>Joins to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724</p>		
68	4135465	P/L CPVC PIPE 32MM DIA	<p>Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) of 32mm dia. SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS at all levels. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc., with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary scaffolding, drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.</p>	M	10
69	4135466	P/L CPVC PIPE 40MM DIA	<p>Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) of 40mm dia. SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS at all levels. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc., with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary scaffolding, drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.</p>	M	6
70	4135467	P/L CPVC PIPE 50MM DIA	<p>Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) of 50mm dia. SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS at all levels. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. The fittings and specials such as tees, elbows, couplers, bends, enlargers etc., with CPVC brass threaded combination / transition specials such as male adapters brass threaded female adapters, brass FPT Tee, Brass FPT elbow etc., where connection with metal is to be made including necessary scaffolding, drilling holes, chasing walls and making the same good in cement mortar 1:1 restore the same original condition neatly as directed by the Engineer in-charge.</p>	M	6



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			Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.		
71	4159329	CISE,P/L CPVC PIPE 20MM UNDERFLOOR	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) 20mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.pipe to be laid underfloor / fixed on walls of shafts at all levels using proper hanger supports,grip bolts, clamps, scaffolding, etc. all complete as per specification & direction of Engineer-in-Charge.	EA	10
72	4159330	CISE,P/L CPVC PIPE 25MM UNDERFLOOR	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) 25mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.pipe to be laid underfloor / fixed on walls of shafts at all levels using proper hanger supports,grip bolts, clamps, scaffolding, etc. all complete as per specification & direction of Engineer-in-Charge.	EA	7
73	4159331	CISE,P/L CPVC PIPE 32MM UNDERFLOOR	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) 32mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.pipe to be laid underfloor / fixed on walls of shafts at all levels using proper hanger supports,grip bolts, clamps, scaffolding, etc. all complete as per specification & direction of Engineer-in-Charge.	EA	7
74	4159332	CISE,P/L CPVC PIPE 50MM UNDERFLOOR	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) 50mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.pipe to be laid underfloor / fixed on walls of shafts at all levels using proper hanger supports,grip bolts, clamps, scaffolding, etc. all	EA	154

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			complete as per specification & direction of Engineer-in-Charge.		
75	4159333	CISE,P/L CPVC PIPE 65MM UNDERFLOOR	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) 65mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.pipe to be laid underfloor / fixed on walls of shafts at all levels using proper hanger supports,grip bolts, clamps, scaffolding, etc. all complete as per specification & direction of Engineer-in-Charge.	EA	6
76	4159334	CISE,P/L CPVC PIPE 80MM UNDERFLOOR	Supplying, installing, fixing, jointing, testing and commissioning of approved make Chlorinated Polyvinyl Chloride pipes (CPVC) 80mm dia SDR.11, ASTM CTS, and above 50mm dia CPVC schedule 40 ASTM IPS. Fittings up to 50mm dia SDR.11, ASTM CTS and above 50mm dia CPVC CORZON schedule 40 fittings. Joints to be made with CPVC solvent cement up to 50mm dia as per ASTM D-2846 and above 50mm dia primer P-70, and solvent conforming to ASTM F-4931 / 724.pipe to be laid underfloor / fixed on walls of shafts at all levels using proper hanger supports,grip bolts, clamps, scaffolding, etc. all complete as per specification & direction of Engineer-in-Charge.	EA	13
77	4052685	PROVID FIX WATER METER 50MMW/STAINER VLV	Providing and fixing water meter 50mm dia. Chamber size: 900 x 600 x 600mm of municipal approved make (Leader/Capston) including providing and fixing matching Control Valve, strainer, non-return valve, complete including excavation, constructing suitable brick masonry chamber 230mm thick 1:3 cement mortar with plaster inside, outside in cement mortar 1:3 to house water meter, strainer and valves and provide 125 Kgs. cast iron frame and cover for the chamber, with locking arrangement all complete as per direction of the Engineer-in-Charge. (Valve chamber size 900 x 600 x 600mm)	EA	2
78	4135478	P/F CS BALL VALVE SCREWED 20 MM	VALVES Providing and fixing C.S. heavy approved make ball valves screwed type of 20mm dia	Nos	2

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79	4135477	P/F CS BALL VALVE SCREWED 25 MM	VALVES Providing and fixing C.S. heavy approved make ball valves screwed type of 25mm dia	Nos	2
80	4135476	P/F CS BALL VALVE SCREWED 32 MM	VALVES Providing and fixing C.S. heavy approved make ball valves screwed type of 32mm dia	Nos	2
81	4135474	P/F CS BALL VALVE SCREWED 50 MM	VALVES Providing and fixing C.S. heavy approved make ball valves screwed type of 50mm dia	Nos	2
82	4159335	CISE,P/F CS BALL VALVE SCREWED 65 MM	VALVES Providing and fixing C.S. heavy approved make ball valves screwed type of 65mm dia	Nos	2
83	4159336	CISE,P/F CS BALL VALVE SCREWED 80 MM	VALVES Providing and fixing C.S. heavy approved make ball valves screwed type of 80mm dia	Nos	2

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84	4120269	P/F BALL COCK 50 MM DIA	VALVES Providing and fixing ball cock of 50MM dia, heavy duty with copper float all complete.	Nos	2
85	4159337	CISE,P/F BALL COCK 40 MM DIA	VALVES Providing and fixing ball cock of 40MM dia, heavy duty with copper float all complete.	EA	2
86	4120270	P/F 20MM DIA.AUTO (RB)AIR RELEASE V/V	Providing and fixing 20mm dia. Automatic (RB) air release valve including providing and fixing cut off & drain valve, making necessary inlet/outlet connection and fixing with M.S. Brackets complete.	Nos	7
87	4159338	CISE.P/L CONCEALED BURIED GI PIPE 40MM	WATER SUPPLY TRANSMISSION MAIN UPTO O.H.TANK Supplying & providing the concealed and buried GI pipes 40 mm dia with protective PVC tape with 50% overlap etc., complete(The quantity of pipe is included in item Nos122)	EA	11
88	4159339	CISE.P/L CONCEALED BURIED GI PIPE 50MM	WATER SUPPLY TRANSMISSION MAIN UPTO O.H.TANK Supplying & providing the concealed and buried GI pipes 50 mm dia with protective PVC tape with 50% overlap etc., complete(The quantity of pipe is included in item Nos122)	EA	11

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89	<b>4159340</b>	CISE.P/L CONCEALED BURIED GI PIPE 65MM	<p>WATER SUPPLY TRANSMISSION MAIN UPTO O.H.TANK</p> <p>Supplying &amp; providing the concealed and buried GI pipes 65 mm dia with protective PVC tape with 50% overlap etc., complete(The quantity of pipe is included in item Nos122)</p>	EA	74
90	<b>4159341</b>	CISE.P/L CONCEALED BURIED GI PIPE 80MM	<p>WATER SUPPLY TRANSMISSION MAIN UPTO O.H.TANK</p> <p>Supplying &amp; providing the concealed and buried GI pipes 80 mm dia with protective PVC tape with 50% overlap etc., complete(The quantity of pipe is included in item Nos122)</p>	EA	105
91	<b>4135485</b>	P/F G.M GATE VALVE 40MM	<p>Providing and fixing 40 mm dia G.M. gate valve screwed type with required 300x300mm masonry chamber in brick bat &amp; C.I. cover all complete.</p>	Nos	2
92	<b>4135486</b>	P/F G.M GATE VALVE 50MM	<p>Providing and fixing 50 mm dia G.M. gate valve screwed type with required 300x300mm masonry chamber in brick bat &amp; C.I. cover all complete.</p>	Nos	5
93	<b>4135487</b>	P/F G.M GATE VALVE 65MM	<p>Providing and fixing 65 mm dia G.M. gate valve screwed type with required 300x300mm masonry chamber in brick bat &amp; C.I. cover all complete.</p>	EA	5

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94	<b>4120313</b>	P/F UPVC SOIL,WASTE&VENTPIPES 75MM DIA	Supplying, fixing and testing 75mm dia. UPVC soil, waste and ventpipes (SWR) including ventcaps conforming to IS 13592 :1990, type B with Cement Solvent joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, vent cowls, etc., laid underfloor / fixed on walls at all levels, and in pipe shaftsetc.,complete.The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clampsetc. as per specification & direction of Engineer-in-Charge.	M	150
95	<b>4120314</b>	P/F UPVC SOIL,WASTE&VENTPIPES 100MM DIA	Supplying, fixing and testing 100mm dia. UPVC soil, waste and ventpipes (SWR) including ventcaps conforming to IS 13592 :1990, type B with Cement Solvent joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, vent cowls, etc., laid underfloor / fixed on walls at all levels, and in pipe shaftsetc.,complete.The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clampsetc. as per specification & direction of Engineer-in-Charge.	M	250
96	<b>4120315</b>	P/F UPVC SOIL,WASTE&VENTPIPES 150MM DIA	Supplying, fixing and testing 150mm dia. UPVC soil, waste and ventpipes (SWR) including ventcaps conforming to IS 13592 :1990, type B with Cement Solvent joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, vent cowls, etc., laid underfloor / fixed on walls at all levels, and in pipe shaftsetc.,complete.The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clampsetc. as per specification & direction of Engineer-in-Charge.	M	450
97	<b>4125547</b>	P/L UPVC AQUARIUSBRAND PIPE 32DIA	Providing and fixing 32mm dia. UPVC Aquarius Brand heavy class pipe for drains including providing and fixing necessary fittings such as elbows, tees union fittingsetc. including cutting holes and pockets chasing in the wall or floors as required and making good the same to original conditions after concealing the pipes where required, lagging the concealed pipes with hessain cloth dipped in hot black bitumen, testing, all complete as per specifications of the following diameters. (for Sink,Drain, and Urinal Drains)	M	53
98	<b>4125548</b>	P/L UPVC AQUARIUS PIPE 40DIA	Providing and fixing 40mm dia. UPVC Aquarius Brand heavy class pipe for drains including providing and fixing necessary fittings such as elbows, tees union fittingsetc. including cutting holes and pockets chasing in the wall or floors as required and making good the same to original conditions after concealing the pipes where required, lagging the concealed pipes with hessain cloth dipped in hot black bitumen, testing, all complete as per specifications of the following diameters. (for Sink,Drain, and Urinal Drains)	M	125

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99	4125549	P/L UPVC AQUARIUS PIPE 50DIA	Providing and fixing 50mm dia. UPVC Aquarius Brand heavy class pipe for drains including providing and fixing necessary fittings such as elbows, tees union fittings etc. including cutting holes and pockets chasing in the wall or floors as required and making good the same to original conditions after concealing the pipes where required, lagging the concealed pipes with hessian cloth dipped in hot black bitumen, testing, all complete as per specifications of the following diameters. (for Sink, Drain, and Urinal Drains)	M	600
100	4159342	CISE,P/F PVC PAN CONNECTOR	Providing and fixing PVC Pan connectors with or without vent holes straight/bend including providing & jointing with lead caulked joints.	EA	45
101	4142103	P/S/F PVC NAHANI TRAP, :	Providing and fixing Size 100 x 75mm PVC. heavy approved Nahani Traps with minimum 40mm seal including fixing the same with the solvent cement joints complete to complete to the satisfaction and direction of the Engineer-in-Charge.	NOS	105
102	4120285	SUP,INST,TESTING,COM UPVC P TRAP 110MM	Supply, installation, testing commissioning of 110mm dia. UPVC "P" Trap in solvent cement joints all complete.	NOS	72
103	4075028	UPVC RAIN WATER DOWNTAKE PIPES 160MM OD	RAIN WATER PIPES & FITTINGS Supplying, fixing and testing rain water pipes of 160mm dia. UPVC (SWR) confirming to IS 13592 :1990, type B with Cement Solvent joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, cowls, etc., laid underfloor / fixed on walls, and in pipe shafts etc., complete. The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clamps etc. as per specification & direction of Engineer-in-charge.	M	588

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105	4135872	P/F UPVC RAIN WATER PIPES 100 MM	<p><b>RAIN WATER PIPES &amp; FITTINGS</b>  Supplying, fixing and testing rain water pipes of 100mm dia. UPVC (SWR) confirming to IS 13592 :1990, type B with Cement Solvent joint inclusive of all necessary specials like bends, tees, offsets, door bends, junctions, cowls, etc., laid underfloor / fixed on walls, and in pipe shafts etc., complete. The quoted rate should include lead and lifting charges to all levels, necessary scaffolding and supports like hanger supports, grip bolts and clamps etc. as per specification &amp; direction of Engineer-in-charge.</p>	M	6
105	4135879	P/F UC WHITE WASH BASIN	<p><b>SANITARY FIXTURES &amp; FITTINGS</b>  Providing and fixing under counter wash basins of company Hindware 10065 or Parryware C0419 Colour : white, comprising of the following for complete installation.  Oval shaped under counter type wash basin. (1 No.)  C.I. Bracket suitable for above (1 Pair)  32mm dia. CP waste coupling (1 No.) JAGUAR or equivalent  32mm dia. CP bottle trap with extension piece, CP wall flange complete. (1 Set) JAGUAR or equivalent  15mm dia. CP heavy angle, stop cock with wall flanges (2 Nos) JAGUAR or equivalent  15mm dia. CP heavy inlet connection pipe (2 Nos)  15mm dia. CP pillar tap, JAGUAR florentine FLR-5009B / allied series or equivalent  Total of all with making necessary inlet/outlet connection all complete.</p>	SETS	20
#REF!	4128558	EUROPEAN WATER CLOSET	<p><b>SANITARY FIXTURES &amp; FITTINGS</b>  Providing and fixing approved off white vitreous china European water closet comprising of the following for complete installation.  European water closet off white Wall Hung including PVC 'P' trap with seat cover CP brass hinges, rubber bushes (1 No.) [Hindware Studio or parryware Indus Walvit ]  6 Ltrs dual type concealed type PVC flush cistern with adjustable flow rate, push button plate, flush pipe &amp; bend all complete. Hindware concealo or Parryware Linea make.  15mm dia. CP heavy approved quality 2-way bib tap with wall flanges (1 No.) Jaguar florentine or allied series.  15mm dia. Approved quality health faucet with flexible tube &amp; wall hook (1 No.) Jaguar or equivalent.  15mm dia. Approved quality angle valve (1 No.) Jaguar or equivalent.  Total of all with making necessary inlet/outlet connection all complete.</p>	NO	20

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107	4152317	WALL MOUNTED WASH BASIN,,	<p>SANITARY FIXTURES &amp; FITTINGS          Providing and fixing wall mounted wash basins of company Hindware art or Parryware flair Colour : white, comprising of the following for complete installation.          wash basin. (1 No.)          C.I. Bracket suitable for above (1 Pair)          32mm dia. CP waste coupling (1 No.) JAGUAR or equivalent          32mm dia. CP bottle trap with extension piece, CP wall flange complete. (1 Set) JAGUAR or equivalent          15mm dia. CP heavy angle, stop cock with wall flanges (2 Nos) JAGUAR or equivalent          15mm dia. CP heavy inlet connection pipe (2 Nos)          15mm dia. CP pillar tap, JAGUAR florentine FLR-5009B / allied series or equivalent          Total of all with making necessary inlet/outlet connection all complete.</p>	NO	20
108	4148989	P/F STAINLESS STEEL SINK (900X450)	<p>SANITARY FIXTURES &amp; FITTINGS          Providing and fixing stainless steel sink of size 900 x 450 (19 gauge) single bowl, drain board including 40mm dia. Waste coupling, CP bottle trap, waste flexible pipe upto nahani trap, water tap Jaguar make with aerator and making inlet/outlet connections all complete as per specifications and directions of the Engineer-in-Charge. (For Kitchen / Pantry) [Nirali, parryware or equivalent.</p>	PICES	10
109	4120300	P/F C.P. OPEN TYPE TOILET PAPER HOLDER	<p>SANITARY FIXTURES &amp; FITTINGS          Providing and fixing C.P. open type toilet paper holder 200 x 150mm, including fixing the same with C.P. screws complete. Of JAGUAR Continental series or equivalent approved make.</p>	NO	20
110	4120302	P/F SOAP DISH HOLDER	<p>SANITARY FIXTURES &amp; FITTINGS          Providing and fixing soap dish holder JAGUAR or equivalent approved make</p>	NO	20

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111	4120303	P/F ROBE HOOKS (DOUBLE)	SANITARY FIXTURES & FITTINGS Providing and fixing robe hooks (double) including fixing the same with CP screws complete. [JAGUAR-1191N]	NO	20
112	4128548	CP BRASS HEAVY SCREWDOWN BIB TAP	SANITARY FIXTURES & FITTINGS Providing and fixing screw down brass chromium plated heavy quality bib-tap of Jaquar make Florentine on water supply pipe lines of 15mm dia with or without extension piece but with a flange etc. complete to the satisfaction of EIC	NO	20
113	4056016	CISE,P/F BIB COCK LONG BODY SCREW DOWN	SANITARY FIXTURES & FITTINGS Providing and fixing, screw down brass chromium plated long body bib taps, of Jaquar make Florentine heavy quality, of approved make, on GI lines, of 15 mm. dia., with or without extension piece and flange etc complete to the satisfaction of EIC	NO	20
114	4056015	CISE,P/F WASH BASIN MIXER PILLAR COCK	SANITARY FIXTURES & FITTINGS Providing and fixing brass chromium plated heavy quality wash basin mixer pillar-tap/cock of Jaquar make Florentine series FLR-CHR-5015 on water supply pipelines of 15mm dia with or without extension piece but with a flange, etc., complete to the satisfaction of EIC.	NO	20
115	4056014	CISE,P/F WASH BASIN PILLAR COCK	SANITARY FIXTURES & FITTINGS Providing and fixing brass chromium plated heavy quality wash basin pillar-tap/cock of Jaquar make Florentine on water supply pipelines of 15mm dia with or without extension piece but with a flange, etc., complete to the satisfaction of EIC.	NO	20

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116	4159346	CISE,P/F BRASS CP 15MM SINK TAP W/FLANGE	SANITARY FIXTURES & FITTINGS Providing and fixing 15mm NB CP brass heavy quality wall or floor mounted sink tap, FLR-CHR-5347ND swivel type, with CP wall flange, casted spout of Jaquar make Florentine etc. complete to the satisfaction of EIC	NO	20
117	4056012	CISE,P/F MIRROR WITH PLAIN EDGE	SANITARY FIXTURES & FITTINGS Providing and fixing best Indian make mirror of specified size like Modi float, Sain Gobin, I.A.G or equivalent silvered locally, with plain edge as required, with 12mm thick marine plywood backing, with CP brass caps, etc., complete. Teakwood beading of 20mm x 32mm size, with French polish or 3 coats of paint etc. complete to the satisfaction of EIC	SQM	20
118	4056008	CISE,P/F TOWEL RAIL	SANITARY FIXTURES & FITTINGS Providing and fixing a CP brass towel-rail of Jaquar make Continental series Cat. No. 1111, 600mm long with concealed type brackets fixed to the wall with CP brass screws, etc., complete to the satisfaction of EIC.	NO	20
119	4056007	CISE,P/F TOWEL RING	SANITARY FIXTURES & FITTINGS Providing and fixing a CP brass Towel-ring of Jaquar make Continental series Cat. No. 1121 with concealed type brackets fixed to the wall with CP brass screws, etc., complete to the satisfaction of EIC	NO	20
120	4056009	CISE,P/F TOWEL RACK	SANITARY FIXTURES & FITTINGS Providing and fixing a CP towel-rack, 230 x 600mm size of Jaquar make Continental accessories Cat. 1181 with concealed type brackets fixed to the wall with CP brass screws, etc., complete to the satisfaction of EIC	NO	20

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121	4159348	CISE,P/F TOILET PAPER ROLL HOLDER ACN-11	SANITARY FIXTURES & FITTINGS Providing and fixing a toilet paper-roll holder fixed to the wall with CP brass screws, of Jaquar make Continental series Cat. No. ACN – 1153N complete to the satisfaction of EIC	EA	20
122	4056004	CISE,P/F SOAP DISH / TRAY SURFACE TYPE	SANITARY FIXTURES & FITTINGS Providing and fixing a surface type soap dish / tray of Chilly make Cat. No. CR001 Cindrella complete with clean surface to original conditions, etc., complete to the satisfaction of EIC	NO	20
123	4128728	CISE,P/F ANGULAR STOP COCK	SANITARY FIXTURES & FITTINGS Providing and fixing a <u>heavy quality CP brass angular stopcock</u> of Jaquar make Continental series Cat. No. 053 (male or female end) of 15mm dia on water supply pipe lines etc. complete to the satisfaction of EIC	NO	20
124	4081801	CISE, S/F OF CONCEALED STOP COCK	SANITARY FIXTURES & FITTINGS Providing and fixing a heavy quality CP brass stopcock (concealed with sheet flange) of 15mm dia. of Jaquar make FLR-CHR-5053N on water supply pipe lines etc. complete to the satisfaction of EIC	EA	20
126	4056002	CISE,P/F SHOWER ROSE OVER HEAD	SANITARY FIXTURES & FITTINGS Providing and fixing a 15mm dia inlet pressure adjustable over head shower rose with shower arm SHA-479L300 of size 190 mm and overhead shower of Jaquar make Continental series Cat. No. OHS-1709 etc. Spout Code : SPJ-15429 complete to the satisfaction of EIC	NO	20

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126	4056001	CISE,P/F DIVERTOR HIGH FLOW SINGLE LEVE	SANITARY FIXTURES & FITTINGS Providing and fixing high flow single liver concealed divertor for Bath and Shower with all accessories, flange etc complete of Jaquar make Florentine series Cat. No. FON-40055K as approved by the Consultants	NO	20
127	4056000	CISE,HAND SHOWER (HEALTH FAUCET)	SANITARY FIXTURES & FITTINGS Providing and fixing Hand Shower (Health Faucet) of Jaquar make Allied series Cat. No. 573 with angle valve of Jaquar make Continental series Cat. No 053 with CP flange with 8 mm dia., 1 m long PVC tube and wall hook of approved make and as approved by the consultants.	NO	20
128	4055998	CISE,P/F WALL MIXER HOT & COLD	SANITARY FIXTURES & FITTINGS Providing and fixing Hot & Cold wall mixer with provision for over head shower with all accessories, flange etc complete of Jaquar make Continental series Cat. No. 273	NO	20
129	4027550	ETC PIPE IS1239 GA 100 MM	SERVICE TYPE: ERECTION, TESTING AND COMMISSIONING OF PIPE, MATERIAL STANDARD: IS 1239, GRADE.GA, SIZE: 100 MM, (HEAVY CLASS), GALVAN IZED	RM	40
130	4052661	P/F GM GATE VALVE SIZE 100 MM DIA	P/F GM gate valve size 100mm dia	EA	5
131	4159325	MECH, P/F NRV PN1.6 100 MM	FIRE FIGHTING SYSTEM NON RETURN VALVE PN 1.6 RATING VALVE 100MM SIZE	EA	5
132	4087496	30M HOSE REEL DRUM	Supplying, installing and commissioning of yard/internal hydrant comprising of the following: Hose reel drum with dia rubber braided hose of 30M. Length with required fittings and shut off nozzle etc complete.	EA	6
133	4117749	NEW Pr gauge calibration & install	New pressure gauge calibrate and installed in service.	EA	3
134	4086869	SUPPLY OF PRESSURE SWITCHES F/ FIRE EMUL	Supply of Pressure Switches for Fire Emul	EA	2
140	4159326	MECH, SITC BOOSTER PUMP	FIRE FIGHTING SYSTEM BOOSTER PUMP END SUCTION BACK PULL OUT TYPE WITH OUTDOOR APPLICATION MOTOR HAVING CAPACITY 450 LPM @ 35MWC LOCATED AT TERRACE LEVEL.	EA	2

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141	4131680	St. steel fabrication in rolled section	<p>Designing, Supplying, Detailing, fabricating, transporting to site of erection, erecting in position at all levels, alignment and final site welding/bolting of all structural components fabricated out of steel conforming IS 2062 including all connected operations such as but not limited to collection of steel from OWNER, straightening of plates, preparation of cutting plans, cutting, bending, grinding, drilling of holes, assembly, bolting (including supply of permanent bolt and nuts) providing erection bolts and nut (weight not considered for payment) welding (weight not considered for payment) including, edge preparation for welding, pre heating of plates before welding, post heating, sequencing of welding, testing of welders, inspection and testing of welds, rectification/ correction of defective welds, etc complete including providing erection mark, erection scheme protection against damage in transit, ensuring stability of structure by installing temporary structure (weight not payable) during erection, including supply of all skilled labour, material, consumables, handling equipment, during fabrication and erection and all other activities, required for complete work as per specification, construction drawings and instruction of ENGINEER (cost of preparation of surface and painting will be paid for extra against relevant items).</p> <p>b) Structural steel member fabricated out of rolled steel sections only and rolled steel section with cover plates conforming to Grade E 250 (Fe 410W) quality A of IS2062, such as columns, beams, trusses, vertical and horizontal bracings, tie beams, struts, purlins, side girts, sag rods, hangers, mono rail beam, stub column, walkways, platforms, stair stringers, ladders.</p>	TO	9
142	4210151	Support structural work	<p><b>FIRE FIGHTING WORKS</b> Design, supply, Installation, testing &amp; commissioning of following fire protection system required for two nos of G + 4 residential building. Structural support"</p>	KG	165

### GATE PASS/MEDICAL FITNESS:

- I. The service provider shall comply with the gate pass procedure of IEL's security and as per Tata steel.
- II. The personnel/employees/workers employed by the Service Provider for Plant location shall have to go formal medical examination at the time of engagements at **Tata Steel's Hospital** located at **Kalinganagar** and subsequently before the renewal of gate pass. Only those personnel/employees/workers that have been medically fit shall be engaged.
- III. All personnel of service provider should have Government ID (Aadhar, Voter, passport, driving license) and the Police verification must be carried out for each employee by the Service Provider before engaging them on duty.



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### ANNEXURE – II

#### **PQR for Service Construction of B-Block (Balance Work) At IEL Colony**

##### **BIDDERS PRE-QUALIFICATION REQUIREMENTS:**

Interested parties to note that Bidder shall be required to fulfil the following prequalification requirement/criteria in order to qualify for the subject work. Bidder will be required to submit relevant supporting documents to demonstrate their qualification during the bid submission stage against Tender document/RFQ and bidders not found meeting the pre-qualification requirements given below will be disqualified from the tender.

##### **TECHNICAL REQUIREMENT:**

1. Bidder Tenderer should have minimum Average Annual Turn-over of Rs. 5 Crores (Indian Rupees Five Crores) consecutively during the last three financial years (e. FY 2021-22, FY 2022-23, FY 2023-24 **(ITR in this regard).**
2. Bidder should have minimum 5 years work experience in the field of civil-structural construction activities preferably in Civil services.
3. The Bidder/Tenderer should provide minimum three references for having successfully tendered such type of services of residential building having annual contract value of Rs. 150 lakhs or above in 2-3 Tata Group Companies and other big industrial companies. Prior experience of Tata Steel Limited, Kalinganagar will be an added advantage. **(Attach Certificate of Experience and Satisfactory Completion of work awarded from concerned Establishments Companies).**
4. Bidder/Tenderer should necessarily have their full-fledged back-office setup and a digital platform for monthly MIS reports to capture feedback, daily checklists etc. share monthly reports handle statutory compliance requirements etc. **(Attach details of digital platform/ team having bandwidth to operate the same along with sample reports).**
5. Bidder/Tenderer should preferably have ISO 9001/ ISO 14001/ ISO 45001 certification or must give an undertaking for its willingness to obtain the same within 2 months of qualification for the work.
6. Bidder/Tenderer must be registered with GST, EPFO & ESIC Authorities and should have a valid EPFO & ESI Registration Number issued by respective authorities, ready to extend the codes to Kalinganagar. (Attach self-attested photocopy of Registration) Bidder/Tenderer must have all applicable statutory registrations/certificates. No pending legal cases/defaulters related to IT, GST, EPFO and ESIC payment/taxes. **BOCW registration is mandatory and liability to pay cess as applicable is under contractor's scope.**



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7. The said package being High Risk Service job will undergo detailed Safety Evaluation. Bidder will have to qualify in various aspects like requirement of safety, officer, Tata Power skilled Development Institute (TPSDI) trained workmen, Certifications etc.

8. Sub - Contracting of this contract is not allowed.

9. All disputes are subject to jurisdiction of Cuttack, Odisha.



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### ANNEXURE III

Schedule of Deviations:

Bidders are advised to refrain from taking any deviations on this TENDER. Still in case of any deviations, all such deviations from this tender document shall be set out by the Bidders, Clause by Clause in this schedule and submit the same as a part of the Technical Bid.

Unless specifically mentioned in this schedule, the tender shall be deemed to confirm the IEL's specifications.

**specifications:**

S. No.	Clause No.	Tender Clause Details	Details of deviation with justifications

***By signing this document we hereby withdraw all the deviations whatsoever taken anywhere in this bid document and comply to all the terms and conditions, technical specifications, scope of work etc. as mentioned in the standard document except those as mentioned above.***

**Seal of the Bidder:**

**Signature:**



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### ANNEXURE IV

Schedule of Commercial Specifications

(The bidders shall mandatorily fill in this schedule and enclose it with the offer Part I: Technical Bid. In the absence of all these details, the offer may not be acceptable.)

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1.	Prices firm or subject to variation (If variable indicate the price variation clause with the ceiling if applicable)	Firm / Variable
1a.	If variable price variation on clause given	Yes / No
1b.	Ceiling	----- %
1c.	Inclusive of Excise Duty	Yes / No (If Yes, indicate % rate)
1d.	Sales tax applicable at concessional rate	Yes / No (If Yes, indicate % rate)
1e.	Octroi payable extra	Yes / No (If Yes, indicate % rate)
1f.	Inclusive of transit insurance	Yes / No
2.	Delivery	Weeks / months
3.	Guarantee clause acceptable	Yes / No
4.	Terms of payment acceptable	Yes / No
5.	Performance Bank Guarantee acceptable	Yes / No
6.	Liquidated damages clause acceptable	Yes / No
7.	Validity (180 days) (From the date of opening of technical bid)	Yes / No
8.	Inspection during stage of manufacture	Yes / No
9.	Rebate for increased quantity	Yes / No (If Yes, indicate value)
10.	Change in price for reduced quantity	Yes / No (If Yes, indicate value)
11.	Covered under Small Scale and Ancillary Industrial Undertaking Act 1992	Yes / No (If Yes, indicate, SSI Reg'n No.)



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### ANNEXURE - V

Checklist of all the documents to be submitted with the Bid  
Bidder must mandatorily fill in the checklist mentioned below:

S. No.	Documents attached	Yes / No / Not Applicable
1	EMD of required value	
2	Tender Fee as mentioned in this RFQ	
3	Company profile/ organogram	
4	Signed copy of this RFQ as an unconditional acceptance	
5	Duly filled schedule of commercial specifications (Annexure IV)	
6	Sheet of commercial/ technical deviation if any (Annexure III)	
7	Balance sheet for the last completed three financial years; mandatorily enclosing Profit & loss account statement	
8	Acknowledgement for Testing facilities if available (duly mentioned on bidder letter head)	
9	List of Machine/ tools with updated calibration certificates if applicable	
10	Details of order copy (duly mentioned on bidder letter head)	
11	Order copies as a proof of quantity executed	
12	Details of Type Tests if applicable (duly mentioned on bidder letter head)	
13	All the relevant Type test certificates as per relevant IS/ IEC (CPRI/ ERDA/ other certified agency) if applicable	
14	Project/ Supply Completion certificates	
15	Performance certificates	
16	Client Testimonial/ Performance Certificates	
17	Credit rating/ Solvency certificate	
18	Undertaking regarding non blacklisting (On company letter head)	
19	List of trained/ Untrained Manpower	



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### Annexure VI

Acceptance Form for Participation In Reverse Auction Event  
(To be signed and stamped by the bidder)

In a bid to make our entire procurement process fairer and more transparent, IEL intends to use the reverse auctions as an integral part of the entire tendering process. All the bidders who are found as technically qualified based on the tender requirements shall be eligible to participate in the reverse auction event.

The following terms and conditions are deemed as accepted by the bidder on participation in the bid event:

1. IEL shall provide the user id and password to the authorized representative of the bidder. (Authorization Letter in lieu of the same shall be submitted along with the signed and stamped Acceptance Form).
2. IEL will make every effort to make the bid process transparent. However, the award decision by IEL would be final and binding on the supplier.
3. The bidder agrees to non-disclosure of trade information regarding the purchase, identity of IEL, bid process, bid technology, bid documentation and bid details.
4. The bidder is advised to understand the auto bid process to safeguard themselves against any possibility of non-participation in the auction event.
5. In case of bidding through Internet medium, bidders are further advised to ensure availability of the entire infrastructure as required at their end to participate in the auction event. Inability to bid due to telephone line glitch, internet response issues, software or hardware hangs, power failure or any other reason shall not be the responsibility of IEL.
6. In case of intranet medium, IEL shall provide the infrastructure to bidders. Further, IEL has sole discretion to extend or restart the auction event in case of any glitches in infrastructure observed which has restricted the bidders to submit the bids to ensure fair & transparent competitive bidding. In case of an auction event is restarted, the best bid as already available in the system shall become the start price for the new auction.
7. In case the bidder fails to participate in the auction event due any reason whatsoever, it shall be presumed that the bidder has no further discounts to offer and the initial bid as submitted by the bidder as a part of the tender shall be considered as the bidder's final no regret offer. Any offline price bids received from a bidder in lieu of non-participation in the auction event shall be out-rightly rejected by IEL.
8. The bidder shall be prepared with competitive price quotes on the day of the bidding event.
9. The prices as quoted by the bidder during the auction event shall be inclusive of all the applicable taxes, duties and levies and shall be FOR at IEL site.
10. The prices submitted by a bidder during the auction event shall be binding on the bidder.



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11. No requests for time extension of the auction event shall be considered by IEL.
12. The original price bids of the bidders shall be reduced on pro-rata basis against each line item based on the final all-inclusive prices offered during conclusion of the auction event for arriving at Contract amount.

Signature & Seal of the Bidder